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Abstract of the Disclosure

An electromagnetic drive device comprises a drive part
10 (10) arranged to be reciprocated in the stroke direction (H)
and possessing a circular or oval cross section, said drive
part having a permanent magnet arrangement magnetized
athwart the stroke direction (H), such arrangement
possessing at least one pair of oppositely magnetized magnet
15 portions (11 through 14) arranged sequentially in the stroke
direction and being arranged in the intermediate space of a
yoke arrangement (16) with pole pieces (19 through 22)
provided in the direction of magnetization on opposite sides
of the drive part (10). The yoke arrangement (16) possesses
20 two pairs of pole pieces (19 through 22) delimiting the
intermediate space and which are joined together by two yoke
regions (23 and 24) extending essentially in parallelism to
the stroke direction (H). At least one of the yoke regions
(23 and 24) is surrounded by a coil (25 and 26) able to
25 conduct current for performing a stroke. Each pair of pole
pieces (19 and 21 and respectively 22 and 22) is provided
with a pair of oppositely magnetized magnet portions (11,

12; 32, 33 and, respectively, 13, 14; 34, 35) of the permanent magnet arrangement. This means that it is simple to design for an extremely narrow overall size.

5 Figure 1